



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**JOHN DEERE 210G 1FF210GXKKF527865**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0197658</b>	JR0185942	JR0168016
Sample Date		Client Info		<b>15 Jan 2024</b>	05 Sep 2023	04 May 2023
Machine Age	hrs	Client Info		<b>4984</b>	4576	4025
Oil Age	hrs	Client Info		<b>408</b>	551	4025
Filter Age	hrs	Client Info		<b>408</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>44</b>	20	17
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	1	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>5</b>	3	4
Lead	ppm	ASTM D5185m	>26	<b>7</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>3</b>	1	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

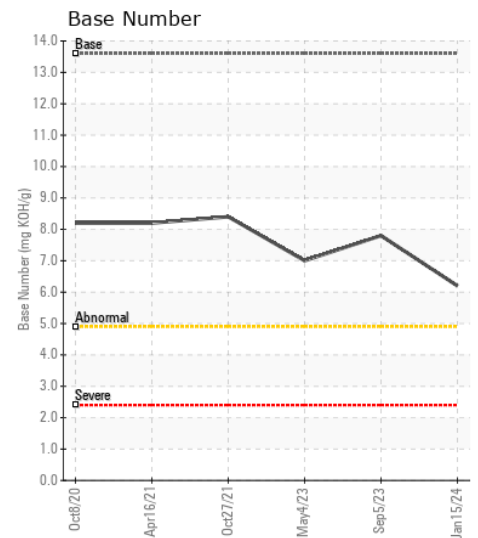
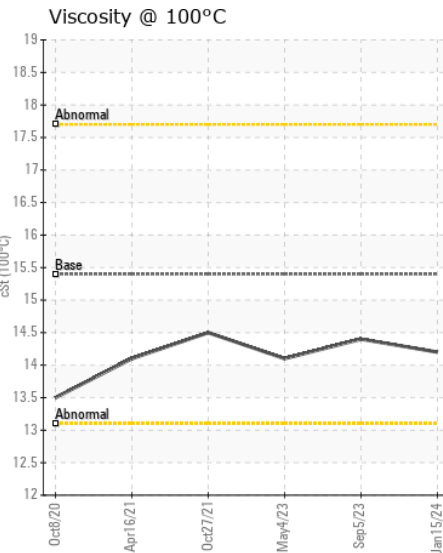
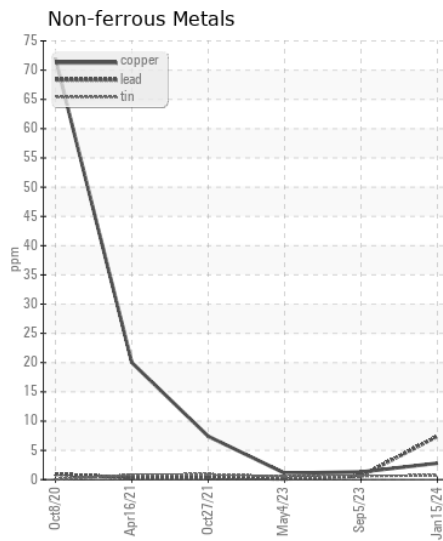
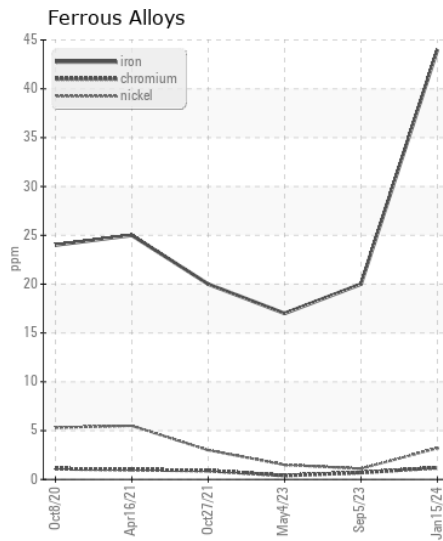
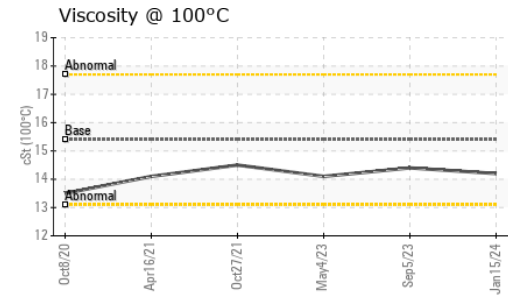
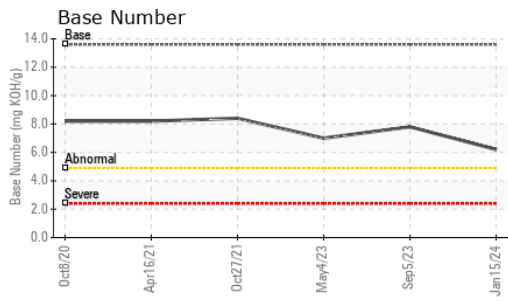
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>10</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.8</b>	10.1	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.3</b>	25.0	22.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	<b>6</b>	4	4
Boron	ppm	ASTM D5185m		<b>29</b>	101	156
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>252</b>	240	257
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>954</b>	886	908
Calcium	ppm	ASTM D5185m		<b>1667</b>	1535	1604
Phosphorus	ppm	ASTM D5185m		<b>942</b>	907	904
Zinc	ppm	ASTM D5185m		<b>1209</b>	1090	1132
Sulfur	ppm	ASTM D5185m		<b>2995</b>	3388	3332
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.9</b>	19.7	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>6.2</b>	7.8	7.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	14.4	14.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197658 **Received** : 17 Jan 2024  
**Lab Number** : 06062485 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833867 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

Contact: RALEIGH SHOP  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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